

Mach-2 CONT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : Not Yet Assigned  
Group : 1805  
Applicants : Bernard F. Mach et al.  
Serial No. : 08/484,786  
Filed : June 7, 1995  
For : DNA SEQUENCES CODING FOR THE DR  $\beta$ -CHAIN  
LOCUS OF THE HUMAN LYMPHOCYTE ANTIGEN  
COMPLEX AND POLYPEPTIDES, DIAGNOSTIC TYPING  
PROCESSES AND PRODUCTS RELATED THERETO

New York, New York  
August 30, 1995

Hon. Assistant Commissioner  
for Patents  
Washington, D.C. 20231

STATEMENT UNDER 37 C.F.R. §§ 1.56 AND 1.97

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97, applicants,  
through their attorneys, make of record the following  
documents:\*

United States Patents

Sanderson et al., 4,478,823, issued October 23, 1984

Erlich, 4,582,788, issued April 15, 1986

Erlich, 5,110,920, issued May 5, 1992

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\* For the convenience of the Examiner, a completed Form PTO-1449, listing each of these documents, is attached.

European Patent Applications

84,796\*, published August 3, 1983

54,676, published June 30, 1982\*\*

Great Britain Patent Application

GB 2,019,408 A, published October 31, 1979

PCT Applications

WO 83/03260, published September 29, 1983

WO 82/02060, published June 24, 1982

WO 80/01986, published October 2, 1980

Articles

R. S. Accolla et al., Proc. Natl. Acad. Sci. USA, 78, pp. 4549-51 (1981)

R. H. Bach et al., N. Engl. J. Med., 295, pp. 806-13 (1976)

B. Benacerraf in The Role Of The Major Histocompatibility Complex In Immunobiology, M. Dorf, ed., Garland Publishing, pp. 255-69 (1981)

J. Bohme et al., "Human Class II Major Histocompatibility Antigen  $\beta$ -chains are Derived From at least Three Loci", Nature, 301, pp. 82-84 (1983)

R. Bono et al., Nature, 299, pp. 836-38 (1982)

B. Cami et al., "Multiple Sequences Related to Classical Histocompatibility Antigens In The Mouse Genome", Nature, 291, pp. 673-75 (1981)

S. Carrel et al., Mol. Immunol., 18, pp. 403-11 (1981)

D. J. Charron et al., J. Exp. Med., 152, pp. 18s-36s (1980)

G. Corte et al., Proc. Natl. Acad. Sci. USA, 78, pp. 534-38 (1981) [Corte I]

G. Corte et al., Nature, 292, pp. 357-60 (1981) [Corte II]

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\* The publication date of this document postdates the priority dates to which the present application is entitled under 35 U.S.C. §§ 119 and 120.

\*\* European patent application 54,676 refers to a process for identifying HLA antigen on lymphocytes by incubation with HLA antiserum and complement.

- O. Finn et al., "Multiple HLA-DR Antigens: Detection With Monoclonal Antibodies And Translation In Vitro", Proc. Natl. Acad. Sci. USA, 79, pp. 2658-62 (April 1982)
- S. M. Goyert et al., J. Exp. Med., 156, pp. 550-66 (August 1982)
- Gustafsson et al., "Mutations and Selection in the Generation of Class II Histocompatibility Antigen Polymorphism", EMBO J., 3, pp. 1655-61 (1984)
- Itakura et al., "Expression in E.coli of a Gene Chemically Synthesized for the Hormone Somatostatin", Science, 198, pp. 1056-63 (1977)
- Y. Kajimura et al., "Entire Amino Acid Sequence Of HLA-DR Beta Chain Deduced From The Cloned Complementary DNA Sequence", J. Cell Biol., 95, p. 217A (November 1982) [Biol. Abstracts 95:25070862]\*
- H. Kratzin et al., Hoppe Seyler's Z. Physiol. Chem., 362, pp. 1665-69 (1981)
- S. Kvist et al., "cDNA Clone Coding For Part Of A Mouse H-2<sup>d</sup> Major Histocompatibility Antigen", Proc. Natl. Acad. Sci. USA, 78, pp. 2772-76 (1981)
- D. Larhammar et al., "Complete Amino Acid Sequence Of An HLA-DR Antigen-Like  $\beta$  Chain As Predicted From the Nucleotide Sequence: Similarities with Immunoglobulins and HLA-A, -B and -C Antigens", Proc. Natl. Acad. Sci. USA, 79, pp. 3687-91 (June 1982)
- E. Long et al., "Molecular Cloning Of HLA-DR Antigen cDNA Fragments", Experimentia, 38, p. 744 (1982) [Long I]
- E. Long et al., "Isolation Of Distinct cDNA Clones Encoding HLA-DR Chains By Use Of An Expression Assay", Proc. Natl. Acad. Sci. USA, 79, pp. 7465-69 (December 1982) [Long II]
- E. Long et al., "Translation And Assembly Of HLA-DR Antigens In Xenopus Oocytes Injected With mRNA From A Human B-Cell Line", EMBO J., 1(5), p. 649-54 (October 11, 1982) [Chem. Abstracts 97:125456n] [Long III]
- Nadler et al., Nature, 290, pp. 591-93 (1981)
- D. Owerbach et al., "Detection Of HLA-D/DR-Related DNA Polymorphism In HLA-D Homozygous Typing Cells", Proc. Natl. Acad. Sci. USA, 80, pp. 3758-61 (June 1983)\*\*

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\*\* The publication date of this document postdates the priority dates to which the present application is entitled under 35 U.S.C. §§ 119 and 120.

Ploegh et al., "Molecular Cloning Of A Human Histocompatibility Antigen cDNA Fragment", Proc. Natl. Acad. Sci. USA, 77, pp. 6081-85 (October 1980)

V. Quaranta et al., J. Immunol., 125, p. 1421-25 (1980)

L. P. Ryder et al., "Genetics Of HLA Disease Association", Ann. Rev. Genet., 15, pp. 169-87 (1981)

T. Sasazuki et al., "The Association Between Genes In The Major Histocompatibility Complex And Disease Susceptibility", Ann. Rev. Med., 28, pp. 425-52 (1977)

D. A. Shackelford et al., Proc. Natl. Acad. Sci. U.S.A., 78, pp. 4566-70 (1981) [Shackelford I]

D. A. Shackelford et al., Immunol. Rev., 66, pp. 133-87 (1982) [Shackelford II]

S. Shaw et al., J. Exp. Med., 156, pp. 731-43 (September 1982)

A. Sood et al., "Isolation And Partial Nucleotide Sequence Of A cDNA Clone For Human Histocompatibility Antigen HLA-B By Use Of An Oligodeoxynucleotide Primer", Proc. Natl. Acad. Sci. USA, 78, pp. 616-20 (1981)

J. L. Strominger et al., in The Role Of The Major Histocompatibility Complex In Immunobiology, M. Dorf, ed., Garland Publishing, pp. 115-72 (1981)

R. Tosi et al., J. Exp. Med., 148, pp. 1592-1611 (1978)

Y. Wai Kan et al., "Polymorphism Of DNA Sequences Adjacent To Human  $\beta$ -globin Structural Gene: Relationship To Sickle Mutation", Proc. Natl. Acad. Sci. USA, 75, pp. 5631-35 (1978)

K. Wiman et al., "Isolation and Identification Of A cDNA Clone Corresponding To An HLA-DR Antigen Beta Chain", Proc. Natl. Acad. Sci. USA, 79, pp. 1703-07 (March 1982)

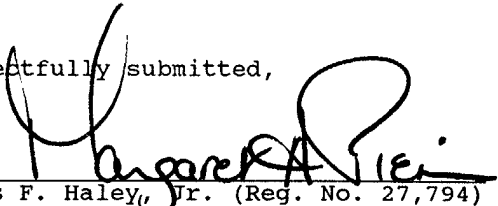
The listed documents were cited by applicants or the Examiner in parent application Serial No. 07/902,999, filed June 23, 1992 (now allowed) and its parent application Serial No. 06/518,393, filed July 29, 1983 (now United States patent 5,169,914). Accordingly, pursuant to 37 C.F.R. § 1.98(d), copies of the cited documents are not enclosed.

It is respectfully requested that these documents be (1) fully considered by the Examiner during the course of examination of this application, (2) listed on the "Notice of References Cited" issued in this application, and (3) printed on any patent issuing from this application. Applicants request

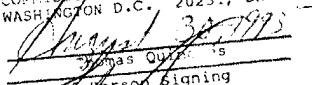
that a copy of Form PTO-1449, as reviewed and initialed by the Examiner, be returned with the next communication.

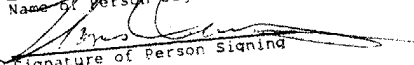
Applicants are submitting this Information Disclosure Statement within three months of the filing date of the present application. Accordingly, pursuant to 37 C.F.R. § 1.97(b), no fee is required in connection with this Information Disclosure Statement. However, the Commissioner is hereby authorized to charge all fees required in connection with this Information Disclosure Statement to Deposit Account No. 06-1075. A duplicate copy of this Information Disclosure Statement is enclosed.

Respectfully submitted,

  
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